HOME CINEMA SYSTEM

GRUNDIG

Cinemo
DR 5400 DD

DEUTSCH
ENGLISH
FRANÇAIS
ITALIANO
PORTUGUÊS
ESPAÑOL

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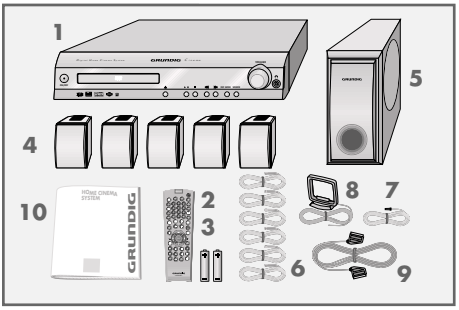
Special features of your home cinema system

Your DVD receiver provides you with perfect digital video playback in studio quality.

It also provides superb cinema-quality audio playback – in stereo or with digital multi-channel sound – depending on the type of DVD or CD used.

In addition to DVD video, you can also play DVD audio, video and S-Video CDs, MP3/WMA CDs and audio CDs. Additionally, the DVD receiver can read home-made DVD Rs and DVD RWs with video data and CD-Rs and CD-RWs with audio or image data (JPEG/Kodak pictures).

Packing contents



1 Cinemo DR 5400 DD DVD receiver
2 Remote control
3 2 Batteries, 1.5 V, type AA
4 2 front loudspeakers, 1 centre loudspeaker, 2 surround loudspeakers
5 Passive subwoofer
6 6 loudspeaker cables
7 FM wire antenna
8 AM frame antenna
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10 Operating manual

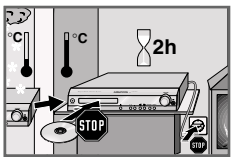
Dolby Pro Logic II, Dolby Digital and DTS

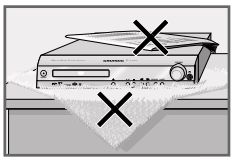
With its Dolby Pro Logic II decoder, the DVD receiver has the latest surround decoder technology. It generates surround sound from the stereo signal. However, the rear channel consists of two separate stereo channels, whose frequency range is not restricted. This means Pro Logic II produces a sound zone with a completely new sense of space, location and stability.

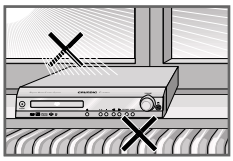
Dolby Digital, on the other hand, is a digital sound system designed for completely independent multi-channel audio playback. It carries five full audio channels and a low frequency effects (LFE) channel. In general, Dolby Digital signals can also consist of fewer than 5 channels (for example 2.0 or 3.0).

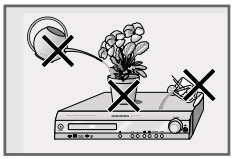
DTS Digital Surround is a digital sound system for differentiated 5.1 multi-channel audio reproduction which creates three-dimensional surround sound effects.

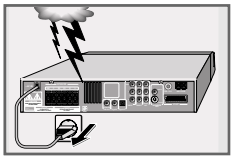
SET-UP AND SAFETY











Please note the following information when setting up the home cinema system:

The DVD receiver and loudspeakers are designed for playing back video and audio signals at home. Any other use is expressly prohibited.

If you want to set up the DVD receiver on wall shelves or in cupboards, please ensure that the device is adequately ventilated. There must be at least 10 cm of space at the side, above and behind the device.

Please note when setting up the DVD receiver that furniture surfaces are coated with various types of paint and plastic, which often contain chemical additives. These additives may cause corrosion to the feet of the unit. This may leave stains on the surface of the furniture which can be difficult or impossible to remove.

If the DVD and loudspeakers are subjected to sudden changes in temperature, for example if they are brought in from the cold to a warm room, let them stand for at least two hours without inserting a disc. Do not connect them to the mains supply during this time.

The DVD receiver and loudspeakers are designed for use in dry rooms. You must make sure that they are protected from moisture such as rain or water splashes.

Place the DVD receiver on a hard, level surface. Do not place any objects such as newspapers on the DVD receiver, or any cloth or similar articles underneath it.

The laser lens is sensitive to temperature. Therefore, do not place the DVD receiver near heating units or in direct sunlight, as this will impair cooling.

Do not insert foreign objects in the disc compartment of the DVD receiver. Never open the casing of the DVD receiver and loudspeakers. No warranty claims are accepted for damage resulting from improper handling.

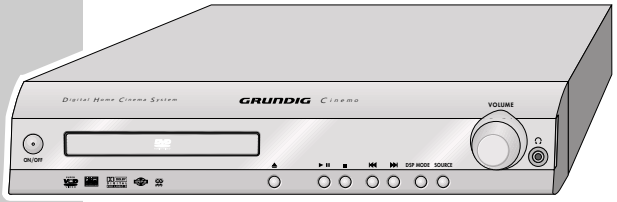
Do not place any vessels such as vases containing fluid on the DVD receiver and loudspeakers. These may be knocked over and spill fluid on the electrical components, thus presenting a safety risk. Do not place any objects such as burning candles on the DVD receiver or loudspeakers.

Thunderstorms are a danger to all electrical devices. Even if the DVD receiver is switched off, it can be damaged by a lightning strike to the mains. Always disconnect the mains and antenna plugs of the DVD receiver during a storm.

If the DVD receiver cannot scan DVDs or CDs perfectly, use a commercially available cleaning CD. Other cleaning methods may damage the laser optics. Always keep the disc compartment closed to prevent dust from collecting on the laser optics.

OVERVIEW

The front of the DVD receiver



ON/OFF Switches the deactivated device into and out of standby mode.
The device is only fully disconnected from the mains after the plug has been pulled out.

● Standby indicator. Lights up when the DVD receiver is in standby mode.

⏏ Opens and closes the disc compartment.

▶ II Starts and pauses disc playback.

■ Ends disc playback.

|◀◀ In disc mode – press briefly during playback to select the previous section or title. Hold down during playback to start a reverse search.
In tuner mode – selects the previous preset station (stored radio station).

▶▶| In disc mode – press briefly during playback to select the next section or title. Hold down during playback to start a reverse search.
In tuner mode – selects the next preset station (stored radio station).

DSP MODE Depending on the type of disc, selects the sound settings CONCERT, STADIUM, HALL, THEATRE, LIVE HOUSE and DSP OFF.

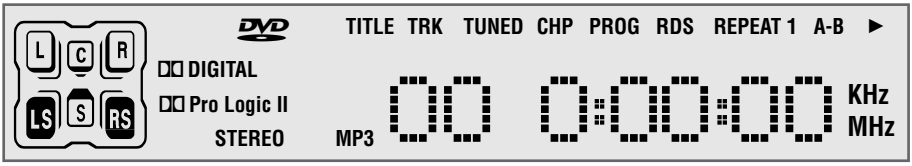
SOURCE Switches between the functions DVD, TUNER FM, TUNER AM and VIDEO 1, VIDEO 2, SCART IN, DIGITAL IN.

🎧 Headphone jack for connecting a stereo headphone set with a jack plug (ø 3.5 mm).
The loudspeakers are switched off automatically. The sound is reproduced in stereo two-channel sound with no surround sound effects.

VOLUME Control dial for volume control.

OVERVIEW

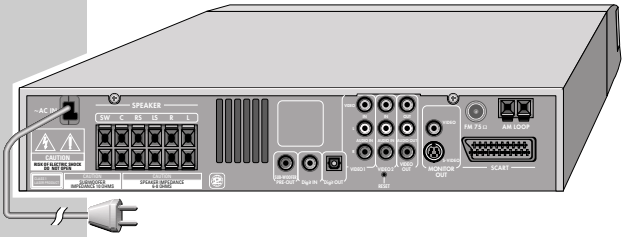
The displays of the DVD receiver



00 0:00:00	Displays various function conditions and settings, as well as the name or frequency of the radio station.
KHz	In combination with the frequency display for AM (medium wave) reception.
MHz	In combination with the frequency display for FM reception.
L C R **LS S RS**	Indicates whether the source signal consists of two or more channels.
DVD	A DVD is inserted.
DIGITAL	Dolby Digital indicator.
Pro Logic II	Dolby Pro Logic II indicator.
CD	An audio CD inserted.
dts	DTS indicator.
STEREO	In tuner mode – two-channel stereo reception.
VCD	A VCD or S-VCD is inserted.
MP3	An MP3 CD is inserted.
II	The disc has been paused during playback.
▶	Disc playback.
TITLE	Displays the title number.
TRK	Displays the track number.
TUNED	A radio station is optimally tuned.
CHP	Displays the chapter number.
PROG	In disc mode – lights up when playing a track memory.
RDS	In tuner mode – an RDS station is being received.
REPEAT 1	The repeat function is activated.
A-B	A selected section is repeated.
▶	The sleep timer is activated.

OVERVIEW

The back of the DVD receiver



~AC IN	Power cord.
SPEAKER SW C RS LS R L	Terminals for connecting the supplied loudspeaker cables for the subwoofer, centre speaker, right surround speaker, left surround speaker, right front speaker and left front speaker.
SUB-WOOFER PRE-OUT	Analogue audio frequency (LFE) output for connecting an active subwoofer (not supplied).
Digit IN	Digital (coaxial) audio signal input for connecting an external device.
Digit OUT	Digital (optical) audio signal output for connecting an external device.
VIDEO 1 VIDEO IN L AUDIO IN R	Video and audio signal inputs (stereo) for connecting an external device, such as a satellite receiver using a standard cinch cable.
VIDEO 2 VIDEO IN L AUDIO IN R	Video and audio signal inputs (stereo) for connecting an external device, such as a video recorder, using a standard cinch cable.
VIDEO OUT OUT L AUDIO OUT R	Video and audio signal outputs (stereo) for connecting an external device, such as a video-recorder using a standard cinch cable.
RESET	Resets the DVD receiver in case the operating electronics are blocked.
MONITOR OUT VIDEO S-VIDEO	Video and S-Video outputs for connecting the television as a monitor.
SCART	Euro AV (Scart) socket for connecting the television using the Euro-AV cable supplied.
FM 75Ω	Connection socket for the FM antenna.
AM LOOP	Connection socket for the AM frame antenna supplied.

OVERVIEW

The remote control

⏻	Switches the DVD receiver to standby mode and from standby mode using the last signal source selected.
⏏	Opens and closes the disc compartment.
DVD	Selects the DISC input source.
AUX	Selects the AV IN, SCART IN and DIGITAL IN (Aux) input sources.
AM FM	Selects the TUNER input source and switches between FM and AM wavebands.
1 ... 0	Numerical buttons for various inputs. In disc mode – select titles or chapters. In tuner mode – to directly entering the preset number or frequency.
→•	Selects the "GO TO" function (for selecting the starting point for playback, or a particular title, chapter or track).
FM MODE	Switches between stereo and mono reception in FM tuner mode.
↻	In DVD mode – for repeating a chapter or the entire DVD. In CD mode – for repeating a title, a file (MP3), all titles or all files (MP3).
DISPL	Switches the screen display in disc mode between various information on chapters, titles and playing time.
A-B	In disc mode – marks a section, which is then constantly repeated.
🛏	Press once to activate the brightness setting for the display. Press twice to activate the sleep timer setting.
PROG	Opens the menu for creating a track memory.
CL	Deletes a track memory.
M	Activates the memory function for storing radio stations in preset positions. Starts and pauses the automatic station search (ASP).
RGB/SV	Selects the video output format (RGB or S-Video).

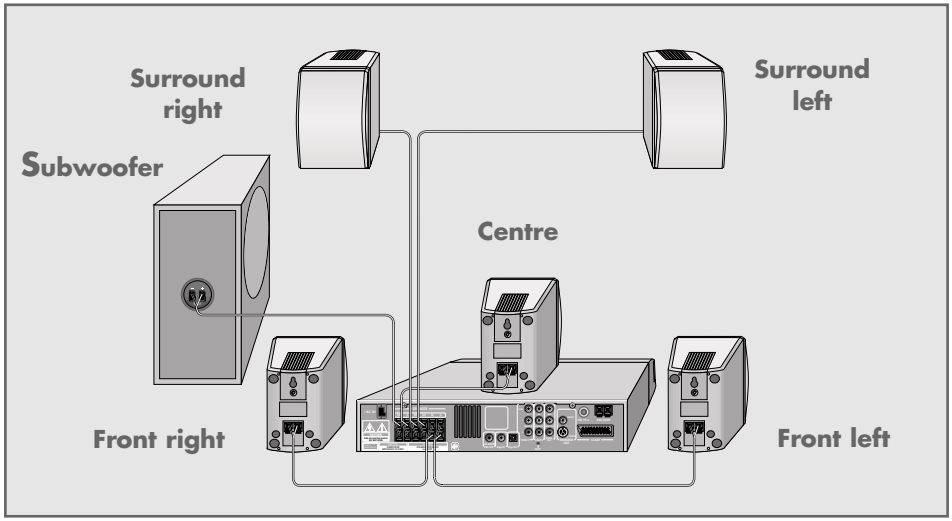
OVERVIEW

	Selects various camera angles for certain scenes or passages on the DVD during playback.
	For selecting and displaying subtitles on the DVD during playback.
	Switches between the original and dubbed language during DVD playback
	Enlarges scenes during playback (zoom).
CD S/I	In CD mode – for playing back tracks or files in random order (**S** = shuffle); for playing the introductions of tracks or files (**I** = intro).
– +	Adjusts the volume of the home cinema system.
RDS	In tuner mode – calls up RDS information.
i	Opens the set-up menu in disc mode when the disc is not playing, regulates the brightness and focus during playback.
	For quitting screen menus.
	Opens the DVD title menu during playback; switches playback control (PBC) of VCDs and S-VCDs off and on. In MP3 mode: switches between playback of a file, an album and the entire disc.
TOP MENU	Opens the disc menu.
OK	Activates the selected setting and confirms entries.
▲ INFO/NEWS	Moves the cursor up in the set-up or disc menu (on the TV screen).
▼ PTY SEARCH	Moves the cursor down in the set-up or disc menu (on the TV screen). In tuner mode – activates the PTY search function.
PTY – ◀	Moves the cursor left in the set-up or disc menu (on the TV screen). In tuner mode – selects programme types.
▶ PTY +	Moves the cursor right in the set-up or disc menu (on the TV screen). In tuner mode – selects programme types.
	Switches to slow motion search at various speeds during DVD playback.

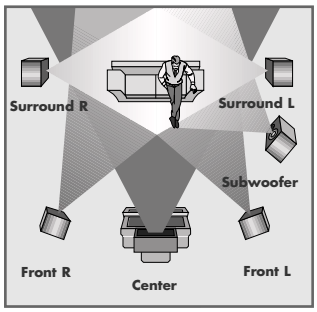
OVERVIEW

II	Press once to pause playback (freeze frame). Press repeatedly to move forward frame by frame.
■	Press once to interrupt disc playback (resume), press twice to end playback (stop).
▶	Starts playback.
⏮ ⏭	During disc playback, selects the previous or next title or section. In tuner mode – for selecting the previous or next preset radio station.
◀◀ ▶▶	In tuner mode – switches the frequency up or down in 50 kHz increments. Starts the forward or reverse frequency search. In disc mode – starts the fast forward and reverse search.
DSP	Selects the sound effects LIVE HOUSE, HALL, CONCERT, STADIUM and THEATRE or DSP OFF (not for MP3).
⧏◯⧐	Selects the sound effects Pro-Logic II Music and Pro-Logic II Movie or Pro-Logic II Off (2-channel stereo) (not for MP3).
SPK LEVEL	For setting the output level of the loudspeakers.
🔇	Switches the home cinema system to and from mute mode.

Connection diagram for the loudspeakers



Setting up the loudspeakers



If possible, set up the front loudspeakers in line with the TV set, angled slightly towards the listener. The listener and the speakers should form an equilateral triangle. This creates the best stereo effect.

The surround loudspeakers should be angled slightly towards each other at a sufficient distance to the left and right behind the listener. They should be positioned at ear height, even when wall-mounted.

Set up the central loudspeaker at the midpoint between the two front speakers, for example above or below the TV set. The best height for the centre loudspeaker is at head height of the seated listener.

To achieve the best possible bass sound, we recommend that you set up the subwoofer to the left or right of the front loudspeakers, in such a way that the sound crosses the room diagonally.

When you are in the middle of the room, you may not be able to hear the bass tone of the subwoofer sufficiently. This is caused by what are known as standing waves, which occur between parallel walls. In this case, simply position the subwoofer at an angle to the wall.

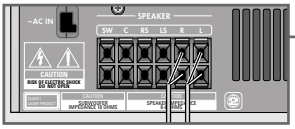
Avoid placing the loudspeakers in a corner, because this over-amplifies the bass tones.
Objects in front of the loudspeakers significantly impair the treble tones and the stereo effect.

Connecting the loudspeakers

Loudspeakers	⊖	⊕
Front left	Black	White
Front right	Black	Red
Centre	Black	Yellow
Surround left	Black	Green
Surround right	Black	Brown
Subwoofer	Black	Blue

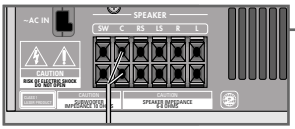
Note:
To connect the loudspeakers, switch off the DVD receiver and disconnect the mains.
When you connect the loudspeaker cables, do not let frayed ends protrude, as this can cause short circuits.

Note:
Connect the coloured loudspeaker cable to the coloured terminals, and the black cable to the black terminals.



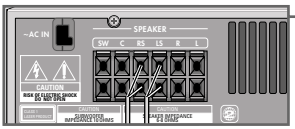
Connecting the front loudspeakers

1 Connect the cables for the right and left front loudspeakers to the »**SPEAKER R**« and »**SPEAKER L**« terminals on the DVD receiver and the appropriate terminals on the loudspeakers.



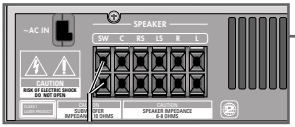
Connecting the central loudspeaker

1 Connect the cables for the central loudspeaker to the terminals on the DVD receiver and the appropriate terminals on the loudspeaker.



Connecting the surround loudspeakers

1 Connect the cables for the right and left surround loudspeakers to the »**SPEAKER RS**« and »**SPEAKER LS**« terminals on the DVD receiver and the appropriate terminals on the loudspeakers.



Connecting the subwoofer

1 Connect the cables for the subwoofer to the »**SPEAKER SW**« terminals on the DVD receiver and the appropriate terminals on the subwoofer.

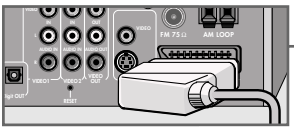
Connecting a television, flat screen or projector

You have three options, depending on the sockets you have on your television or projector:

– Connecting to the Euro-AV (Scart) socket using the Euro-AV cable supplied is the best option, because the video, audio and format switching signals are all on the same connection.

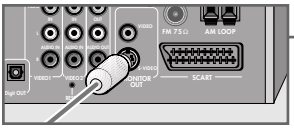
– If your television has no Euro-AV socket, you can still achieve a good picture quality by connecting it via the S-VIDEO OUT sockets.

– Alternatively, you can connect it using cinch cables to the VIDEO OUT sockets for standard picture quality.



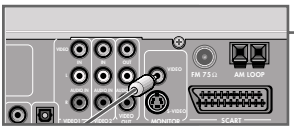
Connection using a EURO-AV (Scart) cable

1 Plug the EURO-AV cable supplied into the »**SCART**« socket of the DVD receiver and into the corresponding socket on the television, flat screen or projector.



Connection using a Y/C (S-Video) cable

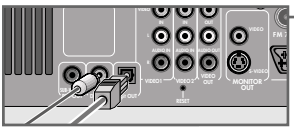
1 Plug a standard Y/C cable into the »**MONITOR OUT S-VIDEO**« socket on the DVD receiver and the corresponding socket (S-VIDEO IN) on the television, flat screen or projector.



Connection using a video cinch cable

1 Plug a standard video cinch cable into the »**MONITOR OUT VIDEO**« socket on the DVD receiver and the corresponding socket (VIDEO IN) on the television, flat screen or projector.

Connecting digital external devices



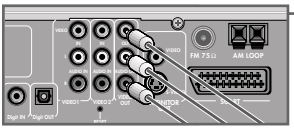
You can connect external devices, such as a digital recording device, with digital audio for disc mode. An optical output »**Digit OUT**« is available for this purpose. The digital output must be activated and set in the set-up menu (see page 22).
You can connect digital external audio sources using the coaxial input »**Digit IN**«.

1 Connect the input socket of the external device to the corresponding output socket on the DVD receiver.

or

1 Connect the output socket of the external device to the corresponding input socket on the DVD receiver.

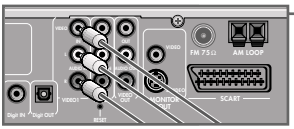
Connecting analogue external devices



1 Use cinch cables to connect the audio input sockets of the external device to the »**AUDIO OUT L R**« sockets on the DVD receiver.

2 Use a cinch cable to connect the video input socket of the external device to the »**VIDEO OUT**« socket on the DVD receiver;

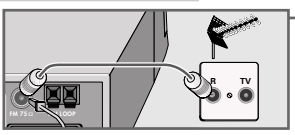
and/or



1 Use cinch cables to connect the audio output sockets of the external device to the »**AUDIO IN L R**« sockets on the DVD receiver.

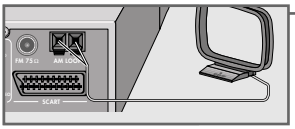
2 Use a cinch cable to connect the video output socket of the external device to the »**VIDEO IN**« socket on the DVD receiver.

Connecting the antennas



1 Plug the cable of the rooftop antenna into the FM antenna socket »**FM 75Ω**«.

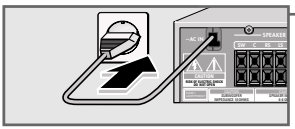
Note:
If no rooftop antenna is available, use the auxiliary antenna supplied. This antenna provides reasonably good reception of local FM (VHF) stations. Do not shorten the auxiliary antenna.



2 For medium wave reception, plug the cable of the supplied MW frame antenna into the »**AM LOOP**« socket.

Note:
In order to prevent interference, place the MW frame antenna as far as possible from the home cinema system or other sources of interference.

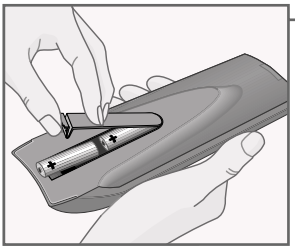
Connecting the power cord



1 Plug the power cord (»**~AC IN**«) into the wall socket.

Note:
If the DVD receiver does not react when the buttons are pressed, this may be caused by electrostatic discharge in the area. In this case pull out the mains plug and insert it into the socket again after a few seconds.

Inserting batteries in the remote control



1 Open the battery compartment by pressing the marked area and pulling down the cover.

2 When inserting the batteries (2 x 1.5 V, LR 06/UM 3/AA), observe the polarity marked on the battery compartment.

3 Close the battery compartment.

Note:
If the DVD receiver no longer reacts properly to remote control commands, the batteries may be flat. Be sure to remove used batteries. The manufacturer accepts no liability for damage resulting from leaking batteries.

Environmental note:
Batteries, including those which contain no heavy metal, may not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

Additional information for units sold in the UK.

Units sold in the UK are suitable for operation from a 240V ac, 50Hz mains supply.
The range of multi-system receivers is built to work in most European countries. However, the mains plug and socket system for the UK differs from many European countries.
This appliance has been supplied with a fitted, non-removable, approved converter plug for use in the UK. This converter plug is fitted with a 5A rated fuse.

In case this appliance is supplied with a moulded 2-pin Euro plug only, which is unsuitable for UK operation, this must be cut off and immediately disposed of. An approved 13A, 3-pin UK plug should then be fitted by a qualified electrician.

> **Note:**
> The severed Euro plug must be destroyed to avoid a possible shock hazard should it be inserted into a socket elsewhere.

If a non-rewireable 3-pin plug or a rewireable 13A (BS1363) 3-pin plug is used, it must be fitted with a 5A ASTA or BSI approved BS1362 fuse. If any other type of plug is used it must be protected by a 5A fuse either in the plug, or at the distribution board. If this type of plug becomes defective, ensure that the fuse is removed before disposal, to eliminate potential shock hazard.

If it is necessary to change the fuse in the non-rewireable plug, the correct type and rating (5A ASTA or BSI approved BS1362) must be used and the fuse cover must be refitted. If the fuse cover is lost or damaged, the lead and plug must not be used until a replacement is obtained. Replacement fuse covers should be obtained from your dealer.

Important:
The wires in the mains lead are colour coded in accordance with the following code:
BLUE – NEUTRAL
BROWN – LIVE
As the colours of the wires in the mains lead of your appliance may not correspond with the coloured marking identifying terminals in your plug, proceed as follows:

Connect the BLUE coloured wire to plug terminal marked with the letter "N" or coloured black.
Connect the BROWN coloured wire to the plug terminal marked with the letter "L" or coloured red.
In no circumstance must any of the wires be connected to the terminal marked with the letter "E", earth symbol "⏚", coloured green, or green & yellow.

Replacement mains lead sets can be obtained from your local dealer, or by contacting Grundig Consumer Relations (01788 570088)
Moulded 3-pin lead set, suitable for UK use:
Ref: Leadset UK 8290-991-224
Moulded 2-pin Euro lead set, not suitable for UK use:
Ref: Leadset Euro 8290-991-316

SETTINGS

General information

You can make the settings required for operating the system in the set-up menu which appears on the television screen. To do this, switch on the television and switch it to the channel on which the DVD is set. You can only make settings with the remote control in disc mode when the device is stopped.

Switching on

1 Press »**DVD**« to switch on the DVD receiver from standby mode.

Selecting the menu language

The set-up menu is available in English, French, and German. The default setting is »English«.

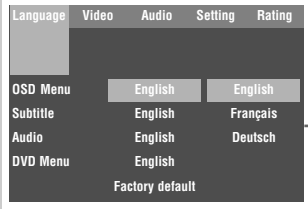
1 Press »**i**« to open the set-up menu.

2 Select the »Language« menu item with »◀« or »▶« and press »**OK**« to confirm.

3 Select »OSD Menu« with »▲« or »▼« and press »**OK**« to confirm.

4 Select your language using »▲« or »▼« and press »**OK**« to confirm.

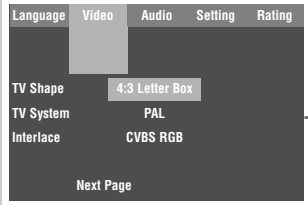
5 Press »**i**« to quit the set-up menu.



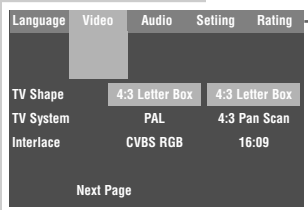
Navigating in the set-up menu

Move through the set-up menu with »◀« or »▶« and select the main menu item. The selected menu item is shown on a light blue background.

When you press »**OK**« to confirm your selection, a sub-menu with two columns appears. Here too, you can navigate with »▲« and »▼« and select the item you require in the right column. The selected line is shown on a light blue background.



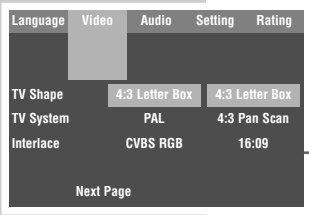
When you press »**OK**« to confirm your selection, a third column usually appears, where you can make the setting by pressing »▲« or »▼«. The selected setting is shown on a light blue background. When you press »**OK**« to confirm the setting, the third column disappears. You can now quit the set-up menu by pressing »**i**« or press »▲« to return to the main menu and make other settings.



Some sub-menus have no third column. In this case, you make the setting in the second column by repeatedly pressing »**OK**«. You can then quit the set-up menu by pressing »**i**« or press »▲« to return to the main menu and make other settings.

Setting the video functions

Setting the picture format

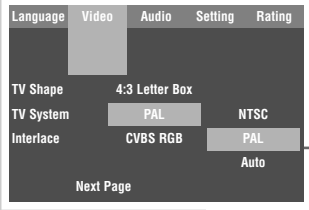


1 Select the »Video« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »TV Shape« by pressing »▲« or »▼« and press »**OK**« to confirm.

3 In the third column, press »▲« or »▼« to make the setting and press »**OK**« to confirm:
- »4:3 Letter Box« for a normal 4:3 television.
- »4:3 Pan Scan« for a normal 4:3 television. Wide-screen pictures are cropped to the left and right. »Pan Scan« is the default setting.
- »16:09« for a 16:9 wide-screen television.

Setting the colour norm for the television

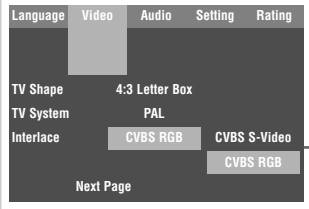


1 Select the »Video« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »TV System« by pressing »▲« or »▼« and press »**OK**« to confirm.

3 In the third column, press »▲« or »▼« to make the setting and press »**OK**« to confirm:
- »NTSC«: PAL video signals are converted to NTSC signals.
- »PAL«: NTSC video signals are converted to PAL signals. »PAL« is the default setting.
- »Auto«: PAL or NTSC video signal output is selected automatically in the multi-system.

Selecting the video format for the Euro-AV (Scart) output

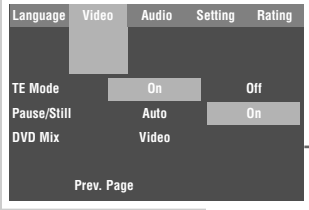


1 Select the »Video« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »Interlace« by pressing »▲« or »▼« and press »**OK**« to confirm.

3 In the third column, press »▲« or »▼« to make the setting and press »**OK**« to confirm:
- »CVBS S-Video«: The video output of the Euro-AV and S-Video socket provides S-Video signals.
- »CVBS RGB«: The video output of the Euro-AV socket provides RGB video signals. The S-Video socket is switched off. This is the default setting.
- In addition, the Euro AV socket provides the CVBS signal in both settings.

Setting TE (transition effect) mode



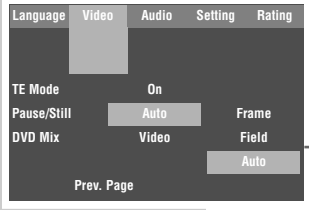
1 Select the »Video« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »Next page« with »▲« or »▼« and press »**OK**« to confirm.

3 On the second menu page, select »TE Mode« with »▲« or »▼« and press »**OK**« to confirm.

4 In the third column, press »▲« or »▼« to select the »Off« or »On« setting, and press »**OK**« to confirm.
– »On«: with a picture CD, the images switch from one to the next in random order.

Improving the quality of paused images and freeze-frames



1 Select the »Video« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

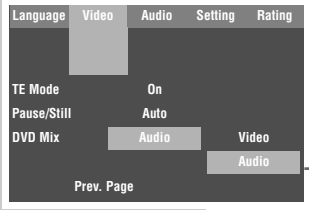
2 Select »Next page« with »▲« or »▼« and press »**OK**« to confirm.

3 On the second menu page, select »Pause/Still« with »▲« or »▼« and press »**OK**« to confirm.

4 In the third column, press »▲« or »▼« to select the »Frame«, »Field« or »Auto« setting, and press »**OK**« to confirm.
– »Frame«: the setting for when text or fine patterns do not emerge clearly.
– »Field«: the setting for when the image is distorted.
– »Auto«: the DVD receiver selects the appropriate setting automatically.

Setting DVD mix

This setting allows you to play back DVDs in video or audio mode, depending on the category.



1 Select the »Video« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »Next page« with »▲« or »▼« and press »**OK**« to confirm.

3 On the second menu page, select »DVD Mix« with »▲« or »▼« and press »**OK**« to confirm.

4 In the third column, press »▲« or »▼« to select the »Audio« or »Video« setting, and press »**OK**« to confirm.
– »Video«: when you select a piece of music, you may be able to operate picture sequences on the DVD interactively.
– »Audio«: when you select a piece of music, a fixed background image appears.

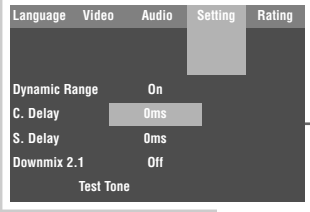
Setting the loudspeaker configuration

Switching on

1 Press »**DVD**« on the remote control to switch on the DVD receiver from standby mode.

Setting the distance to the listening position

Ideally, all the speakers in a home cinema system, should be set up at equal distances from the listener. The central speaker should also be positioned in line with the front speakers. If these preconditions are met, you do not need to set a time delay for the sound, because the default setting is »0ms«.
However, central and front loudspeakers are often set up closer to the listener. In this case, the sound must be electronically delayed by a fraction of a second. This is done using the sound time delay function.
If the central speaker is no more than 50 cm from the line between the front speakers, the setting is not necessary. If the distance is greater, you must find out the difference between the distances from the listener to the front speakers and from the listener to the central speaker. Enter the travel time of the sound in milliseconds (ms) (»0ms« to »5ms«). One metre roughly corresponds to 3 milliseconds.
When using surround speakers, you must also find out the difference between the distances from the listener to the front speakers and from the listener to the surround speakers. Enter the travel time of the sound from »0ms«, »3ms« to »12ms«, »15ms«. One metre roughly corresponds to 3 milliseconds.



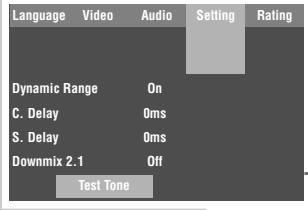
1 Select the »Setting« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

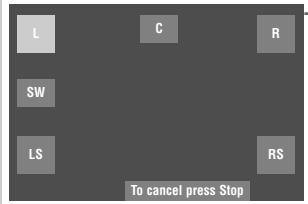
2 Select »C. Delay« with »▲« or »▼«.

3 Select the setting (»0ms« to »5ms«) using »**OK**«.

4 Select »S. Delay« with »▲« or »▼«.

5 Select the setting (»0ms«, »3ms« to »12ms«, »15ms«) using »**OK**«.





Checking the volume with a test tone

A test signal can be created for each connected speaker to check the volume level. »Off« is the default setting.

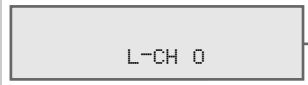
1 Select the »Setting« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »Test Tone« with »▲« or »▼« and press »**OK**« to confirm.
– A menu screen appears showing each test tone.
– The test tone sounds in turn from the left front speaker, the central speaker, the right speaker, the surround speakers and the subwoofer.

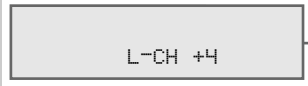
3 Press »■« to finish the test tone.

Setting the volume level for the individual channels

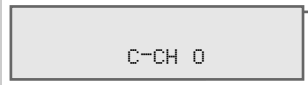
Depending on the current operating mode (see the loudspeaker indicator on the DVD receiver), you can adjust the volume to the listening position. You can make this setting either with or without the test tone. The volume impression should be about the same for all channels. The individual volumes can be adjusted within a range of -6 to +6 dB.
When entering the settings, if no button is pushed for more than 5 seconds, the DVD receiver quits the menu automatically. Any altered settings are saved.



1 Press »**SPK LEVEL**« to open the menu for setting the level.
– Display on the DVD receiver: e.g. »L-CH 0«.



2 Set the volume of the front left speaker using »– ◢ « or »◢ +«.
– Display on the DVD receiver: e.g. »L-CH +4«.



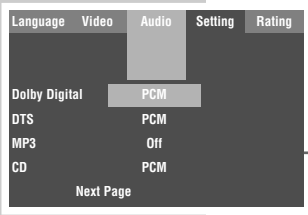
3 Press »**SPK LEVEL**« to start the setting for the centre speaker.
– Display on the DVD receiver: e.g. »C-CH 0«.

4 To set the central speaker (»C-CH 0«), the right front speaker (»R-CH 0«), the surround speakers (»SL-CH 0« and »SR-CH 0«) or the subwoofer (»SW-CH 0«), repeat steps **2** and **3**.

Setting the audio functions

Setting digital audio signal output

You can make the setting for the optical output for connection to an external device here.



1 Select the »Audio« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

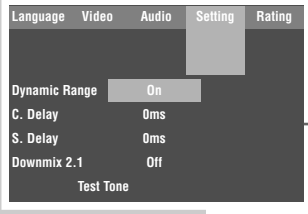
2 Select the output format (»Dolby Digital«, »DTS«, »MP3« or »CD«) using »▲« or »▼«.

3 Press »**OK**« repeatedly to make the setting.
- »PCM«: The digital output converts into PCM audio format for digital recorders. »PCM« is the default value.
- »Original«: The digital output provides the original audio format.
- »Off«: The digital output does not process any signals.

Setting the dynamic range

Dolby Digital and DTS soundtracks have a very large dynamic volume range, hence there is a great difference between quiet and loud sounds. When played at full volume this can be a fascinating experience, but it can cause disturbance late at night. Simply reducing the volume does not produce satisfactory results, since the dialogue can be hard to understand.

You can turn down the louder sounds and turn up the quieter passages, while retaining the volume of the dialogue. This function is called the dynamic range.



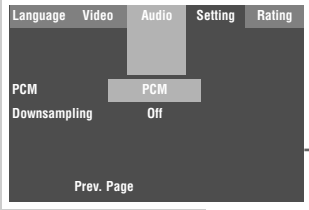
1 Select the »Setting« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

2 Select »Dynamic Range« by pressing »▲« or »▼«.

3 Press »**OK**« to select the setting:
- »Off« or »On«. »Off« (the default setting) means uncompressed dynamics (during the day), »On« means compressed dynamics (late at night).

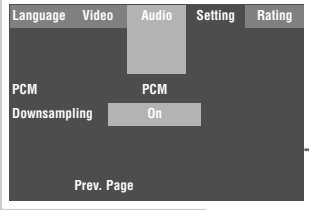
Setting a digital output for PCM signals

This setting opens the digital output for PCM signals if you want to connect an external audio device with a linear digital PCM input.



1. Select the »Audio« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.
2. Select »Next page« with »▲« or »▼« and press »**OK**« to confirm.
3. On the second menu page, select »PCM« with »▲« or »▼« and press »**OK**« to confirm.
4. Select the setting »PCM« or »Off« by pressing »**OK**«.

Sampling a digital output signal

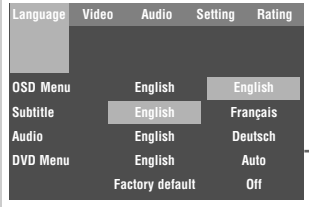


1. Select the »Audio« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.
2. Select »Next page« with »▲« or »▼« and press »**OK**« to confirm.
3. On the second menu page, select »Downsampling« with »▲« or »▼« and press »**OK**« to confirm.
4. Select the setting »On« (sampling rate 48 kHz) or »Off« by pressing »**OK**«.

Language settings

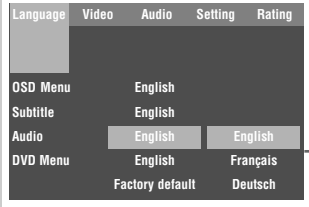
The default for all language settings is »English«.

Setting the preferred subtitle language



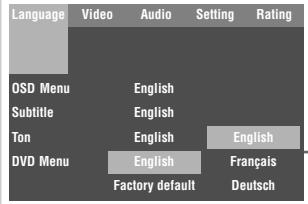
1. Select the »Language« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.
2. Select »Subtitle« with »▲« or »▼« and press »**OK**« to confirm.
3. In the third column, press »▲« or »▼« to select the language or the »Auto« or »Off« setting, and press »**OK**« to confirm.

Setting the preferred dubbing language



1. Select the »Language« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.
2. Select »Audio« with »▲« or »▼« and press »**OK**« to confirm.
3. In the third column, press »▲« or »▼« to select the language and press »**OK**« to confirm.

Setting the preferred disc menu language



1 Select the »Language« item in the main menu with »◀« or »▶« and press »**OK**« to confirm.

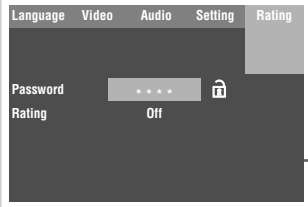
2 Select »DVD Menu« with »▲« or »▼« and press »**OK**« to confirm.

3 In the third column, press »▲« or »▼« to select the language and press »**OK**« to confirm.

Setting the parental lock

Age restrictions for viewing can be set on some DVDs. The parental lock allows you to define age limits on several levels in the setup menu. »Off« is the default setting. If the DVD is not suitable for an age group you have defined, then the DVD receiver will not play the DVD. You can enable and disable the parental lock using a personal code.

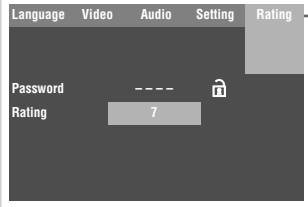
If you have forgotten or lost your personal code number, use the master code listed in the troubleshooting section on page 47. Once you have disabled the parental lock using the master code, you can then enter any personal code you choose.



1 Select the »Rating« menu item with »◀« or »▶« and press »**OK**« to confirm.
– »Password« is shown on a blue background.

2 Enter your four-digit personal code number with »**1 ... 0**« and press »**OK**« to confirm.
– The lock symbol opens.

3 Select »Rating« by pressing »▼«.



4 Press »**OK**« repeatedly to change the setting.
The following settings are available:
– Off.: Parental lock off.
– 1.: Suitable for all ages.
– 2.: Only with parental guidance.
– 3.: Not suitable for children under 13, from ages 13 to 18 only under parental guidance.
– 4.: May contain violence or sex scenes, can only be viewed by children under 18 under with parental guidance.
– 5.: Level 5
– 6.: Only for adults, not for those under 17.
– 7.: Only for adults.

5 Press »▲« to return to the »Password« item.

6 Enter your four-digit personal code number with »**1 ... 0**« and press »**OK**« to confirm.
– The lock symbol closes.

SETTINGS

Tuning and storing radio stations ...

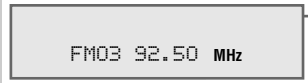
You can store up to 30 FM radio stations and 30 AM radio stations. You can see the displays for this in the DVD receiver.

... using the automatic station search (ASP)

1 Switch on the DVD receiver from standby by pressing »⏻« on the remote control or »**ON/OFF**« on the device.
– The DVD receiver switches on with the last input source selected.

2 Press »**AM FM**« on the remote control or »**FUNCTION**« on the DVD receiver to select the TUNER input source.
– Display on the DVD receiver: e.g. »FM 87.50 MHz«.

3 To start the automatic station search, press »**M**« on the remote control until »AUTO SAVE« appears in the display.



– The automatic station search begins. The receiver searches for up to 30 stations with the strongest signals in the FM range and another 30 in the AM range.
– After the search has finished, you will hear the station stored at position 1.

Note:
You can stop the search by pressing »**M**« on the remote control (display: »SAVE STOP«).

... manually

1 Press »**AM FM**« on the remote control or »**FUNCTION**« on the DVD receiver to select the waveband (FM or AM).

2 To start the search, press »◀◁« or »▷▶« until the frequency in the search changes.
– The search stops when a radio station is found.
– Display: e.g. »FM 100.60 MHz«.

Note:
To change the frequency in steps, briefly press »◀◁« or »▷▶« several times.
– Display: the frequency in 50 kHz increments

or

Enter the frequency directly with »**1 ... 0**« and press »**OK**« to confirm.

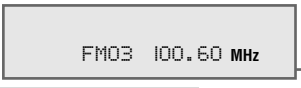
– Display: e.g. »FM _ _ _ _ 8«, then e.g. »FM _ 88.60«.
– The radio station is then played.

3 Press »**M**« on the remote control to select the memory function.
– Display: »SAVE TO __«, »__« for the preset position.

Note:
If no button is pressed within 5 seconds, the DVD receiver automatically quits the memory function.

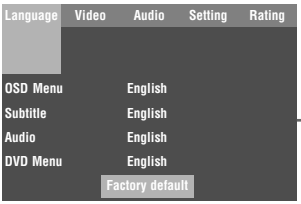
4 Select the preset position by pressing »|◀« or »▶|« on the remote control.

Note:
You can enter the preset position directly using the numerical keys »**1 ... 0**« on the remote control.



5 Store the radio station by pressing »**OK**« on the remote control within five seconds.
– Display: briefly »SAVED«, then for example »FM03 100.60 MHz«.

Restoring all default settings

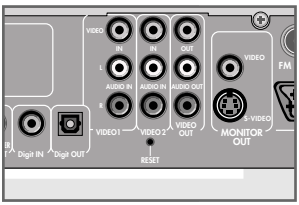


You can return all settings to their default values with this function.

1 In the set-up menu, select »Rating« by pressing »◀« or »▶« and then press »**OK**« to confirm.

2 Select »Factory default« with »▲« or »▼« and then press »**OK**« to confirm.
– All the default settings are restored.

Resetting the DVD receiver



In the unlikely event of the electronic controls of the DVD receiver becoming blocked (for example due to static electricity from the carpet or because of electrical storms), you can reset the device to its original state.

1 Use a pointed object such as a paper clip to press »**RESET**« (on the back of the device) for two seconds

or

pull out the mains plugs and plug it back in after two minutes.

GENERAL FUNCTIONS

Switching on and off

1 When the DVD is switched off, press »**ON/OFF**« to switch it to standby mode.
– The standby indicator on the DVD receiver lights up red.

2 Press »⏻« on the remote control to switch on the home cinema system from standby mode.
– The standby indicator on the DVD receiver goes out.
– DVD receiver display: briefly »WELCOME«.
– The system switches on with the most recently selected input source.

WELCOME

3 Press »⏻« on the remote control to switch the home cinema system to standby mode.
– Display: briefly »GOOD-BYE«, the display on the DVD receiver goes out.
– The standby indicator on the DVD receiver lights up red.

GOOD-BYE

4 Press »**ON/OFF**« on the DVD receiver to switch it off.
– The standby indicator on the DVD receiver goes out.

Note:
You can switch on the home cinema system from standby mode to the appropriate input source using the »**DVD**«, »**AM FM**« or »**AUX**« buttons on the remote control.

Selecting the input source

1 Select the input source (DVD, TUNER FM/AM, AUX) by pressing »**FUNCTION**« on the DVD receiver or »**DVD**«, »**AM FM**« or »**AUX**« on the remote control.
– Display on the DVD receiver: »DVD«, »TUNER FM«, »TUNER AM«, »VIDEO 1«, »VIDEO 2«, »SCART IN« or »DIGITAL IN«.

DVD

Preparing for disc playback

1 Switch on the television and select the preset channel for the DVD receiver.

2 Switch on the DVD receiver from standby by pressing »⏻« on the remote control or »**ON/OFF**« on the device.

3 Select the DISC input source.
– Display on the DVD receiver: briefly »DVD«, followed by »LOADING« and then »NO DISC«.

NO DISC

GENERAL FUNCTIONS

Inserting a disc

1 Press »⏏«.
– The disc compartment opens.
– Display on the DVD receiver: »OPEN«.

2 Insert the disc in the disc compartment with its label facing upwards.

3 Press »⏏«.
– The disc compartment closes again (display: »CLOSE«). The disc is scanned.
– Display on the DVD receiver: information on the disc.

Removing discs

1 Press »⏏« to open the disc compartment.

2 Remove the disc.

Adjusting the volume

1 Alter the volume of the whole system by pressing »**VOLUME**« on the DVD receiver or »– +« on the remote control.
– Display on the DVD receiver: briefly »VOLUME« and the selected level (scale from »MIN«, »01« to »62«, »MAX«).

Note:
In Aux mode (VIDEO 1, VIDEO 2, SCART IN, DIGITAL IN), the volume of the television set should be set to a minimum, as the sound is transmitted through the DVD receiver.

Muting

The DVD receiver mutes the connected loudspeakers using this function.

1 Press »🔇« on the remote control to mute.
– Display on the DVD receiver: the loudspeaker indicator flashes.

2 Briefly press »🔇« on the remote control again to cancel the muting.
– Display on the DVD receiver: the loudspeaker indicator remains on.

GENERAL FUNCTIONS

Selecting sound settings

You can choose between five different sound settings (LIVE HOUSE, HALL, CONCERT, STADIUM, THEATRE and DSP OFF).

1 Press »**DSP**« to call up the current sound setting.
– Display on the DVD receiver: »LIVE HOUSE«, »HALL«, »CONCERT«, »STADIUM«, »THEATRE« or »DSP OFF«.

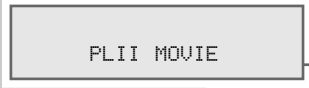
2 Keep pressing »**DSP**« on the remote control to select the sound setting you want.

Switching between two-channel and multi-channel mode

The DVD receiver has a Dolby Pro Logic II Decoder, which converts the stereo signal into a Dolby surround signal during disc playback, thus providing a high quality surround sound effect.

Pro Logic II has two playback modes, namely music and movie. In music mode, there is a shelf filter, which acts gently on high frequencies on the surround channels. It provides a natural, convincing sound effect, because surround sound information is normally subject to slight treble attenuation due to reflection and absorption. Movie mode, on the other hand, does not use a surround filter, but stereo surround outputs instead.

The loudspeaker configuration (two-channel or multi-channel) appears in the loudspeaker display on the DVD receiver.



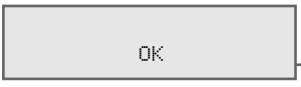
1 To switch between two-channel and multi-channel mode, press »⧉« on the remote control repeatedly.
– Display during switching: briefly »PLII OFF«, »PLII MUSIC« or »PLII MOVIE«.
– Display on the DVD receiver in Dolby Pro Logic mode: »**ProLogic II**«.

GENERAL FUNCTIONS

Adjusting the brightness of the DVD receiver display

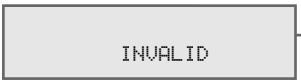
You can change the brightness of the display in three levels.

1 To activate the function, press »⌨« on the remote control.
– Display: »DIMMER MAX«, »DIMMER MID« or »DIMMER MIN«.



2 To set the brightness level, press »◀« or »▶« repeatedly and press »**OK**« to confirm.
– Display: briefly »OK«.
– The brightness is set.

General information on disc playback



If the »⃠« symbol appears on the television screen and »INVALID« appears on the DVD receiver display after certain key commands, the disc manufacturer has restricted the functions, or the function is not available in the current operating mode.

DISC FEATURES

Disc formats

Your DVD receiver can play DVD R/DVD RW in DVD video format and CD R and CD RW in CD-DA Format or MP3/WMA format. The DVD receiver supports DVD video/audio.

Due to difference in quality of the recording media and the quality of the recording itself, it can occasionally happen that a home-made DVD R/DVD RW or CD R and CD RW with audio data cannot be read. This does not indicate a malfunction of the DVD receiver. The causes for this can be faulty software or hardware settings, or even the CD itself. Should such problems arise, contact the customer services of your CD burner or software manufacturer or search for information about this, for example online.

If you make a DVD R/DVD RW or CD R/CD RW, please observe the legal regulations and do not infringe the copyright of third parties. Recordings you make yourself (DVD R/DVD RW, CD R and CD RW) have to be finalised.

When MP3/WMA CDs are played back, individual tracks may be skipped or incorrectly played back. This can be due to the disc configuration, the encoder software or the hardware used for the recording.

Audio CDs (CD-DA) meet the specification and bear the corresponding logo. Copy-protected CDs do not meet this specification in some circumstances and do not bear the corresponding logo. These CDs can cause playback errors.

DVD features

You can recognise a DVD by the logo on the label. Depending on the content of the DVD, the discs contain one or more titles. Each title may contain one or more chapters. Titles and chapters can be selected easily and conveniently.

You can control and direct playback of a DVD using the menu of the DVD receiver on the television screen.

Many DVDs have audio tracks recorded in up to eight languages. This enables you to select the language you prefer. Also, many DVDs are recorded by the manufacturer with subtitles in several languages. You can select subtitles from up to 32 different languages.

Your DVD receiver has been given region code 2. DVDs with other regional codes cannot be played.

VCD/S-VCD features

You can tell VCDs/S-VCDs (video CDs) by the logo on the label. Depending on the contents of the VCD/S-VCD (films, music videos etc.), the discs may carry one or more titles. Like audio CDs, VCDs/S-VCD have a track structure.

DISC FEATURES

You can control and direct playback of the VCD/S-VCD using the menu of the DVD receiver on the television screen.

Functions such as subtitles and dubbed languages are not available for S-VCDs.

PBC (playback control)

VCDs/S-VCDs can be created using the PBC (playback control) system for track navigation. PBC switches between the playlist structure (the menu on the VCD/S-VCD) and manual selection by the user.

PBC is activated after the VCD/S-VCD has been scanned. This function allows interactive playback of the VCD/S-VCD if you follow the menu on the television screen.

MP3/WMA CD features

MP3 stands for MPEG-1 Audio Layer 3, WMA for Windows Media Audio. Both formats enable audio files to be saved on a computer with a sound quality similar to that of a CD. The standard encoding bit rate for MP3 files is 128 kbps. The fundamental rule applies: the higher the bit rate of a file, the better the sound quality.

Most MP3 files on the Internet are encoded at 128 or 160 kbps. 160 kbps is considered CD quality. MP3/WMA files can be downloaded from the Internet and then burned onto a CD ROM disc using suitable PC software.

In MP3/WMA mode, the terms “album” and “file” are very important. “Album” corresponds to a folder on a PC, “File” to a file on a PC or a CD-DA track (title).

Audio CD features

An audio CD (CD-DA) is identified by this logo. Audio CDs contain only sound recordings. They can be played in the normal manner on an audio system. The individual tracks are stored in a sequence. There are no folders.

As well as audio CDs, the DVD receiver can also read CD R and CD RW with audio data.

JPEG/Kodak picture CD features

JPEG stands for Joint Picture Experts Group. This process was designed to compress picture files.

The files on a JPEG CD can be organised in directories. This structure is similar to that of an MP3 CD. JPEG CDs only contain data in the compressed JPEG format. This is mostly data from digital cameras or from imaging programs. The data (images) can be displayed individually or in sequence in a slide show.

DISC MODE

Playback functions

In DVD mode, playback starts automatically after the disc has been scanned. A menu may also appear on the screen where you can start disc playback.
A menu also appears on the screen with VCDs/S-VCDs where you can control the playback of the disc interactively if you activate the PBC function (see page 32).

Playing back the disc

1 Start playback in stop mode by pressing »▶ «.

2 To pause playback (freeze-frame in video mode), press »❚❚«.

3 Press »▶ « to resume playback.

4 To end playback, press »■«.

Pausing and resuming playback

1 To pause playback, press »■« once.

2 Press »▶ « to resume playback.

3 To end playback, press »■« twice.

Selecting titles or chapters ...

... step-by-step

1 Select the next chapter, file or title by pressing »▶|« briefly during playback.

2 Press »|◀« to switch to the start of the current chapter, file or title.
– Playback begins at the start of the current chapter, file or title.

3 Press »|◀« again.
– Playback starts with the previous chapter, file or title.

... directly with the numerical keys

1 During playback, select the title by pressing »**1 ... 0**« on the remote control.
– Playback starts with the selected chapter, file or title.

Notes:
These functions are not available in Aux mode.
Direct selection using the numerical keys is not possible with every disc function.

DISC MODE

Selecting titles or chapters (in DVD mode) ...

... using the title or DVD menu

If a DVD contains several titles or chapters, you can select these in the title or DVD menu, if the DVD itself offers this function.

1 Press »⦾« on the remote control to open the title or DVD menu.
– The title or DVD menu appears on the screen.

2 Select the title or chapter with »▲« or »▼« or with »◀« or »▶« and press »**OK**« to confirm.
– Playback of the selected title or chapter begins.

Note:
Depending on the DVD, you can also select the title or chapter directly using the numerical keys »**1 ... 0**« on the remote control. Press »**OK**« to confirm.

... using the DVD main menu

Some DVDs offer a main menu which shows the titles and chapters.

1 Press »**TOP MENU**« on the remote control to open the main menu.
– The main menu appears on the screen.

2 Select the title or chapter with »▲« or »▼« or with »◀« or »▶« and press »**OK**« to confirm.
– Playback of the selected title or chapter begins.

Notes:
Depending on the DVD, you can also select the title or chapter directly using the numerical keys »**1 ... 0**« on the remote control. Press »**OK**« to confirm. On certain DVDs, if you press »**TOP MENU**«, the whole disc is repeated from the beginning.

PBC playback (in Video CD mode)

PBC ON

After the VCD or S-VCD is scanned, the PBC function is activated, provided the disc supports this function (»PBC ON« briefly appears).

1 Press »▶ II« to start playback.
– The DVD receiver automatically switches to PBC playback mode.

2 Select the menu option with »▲« or »▼« or with »◀« or »▶« and press »**OK**« to confirm.

3 Follow the instructions in the menu to use the interactive functions.

4 Press »↵« on the remote control to quit the menu or to return to the previous menu.

PBC OFF

5 To deactivate the PBC function, press »⟲« on the remote control during playback.
– »PBC OFF« appears briefly on the television screen.
– Normal playback starts automatically.

MP3/WMA CD playback

1 After the disc compartment closes and the MP3/WMA CD is scanned, the file browser appears automatically.

2 Select the album using »▲«, »▼«, »◀«, »▶« or »**1 ... 0**« on the remote control and press »**OK**« to confirm.
– You can now see the files.

3 Select the file using »▲«, »▼«, »◀«, »▶« or »**1 ... 0**« on the remote control and press »**OK**« to confirm.
– Playback of the file starts automatically.

4 Select the previous or next file with »|◀« or »▶|«.
– Playback of the file starts automatically.

5 Press »■« to end playback.

Playing back a JPEG picture CD

1 After the disc compartment closes and the JPEG CD is scanned, the file browser appears automatically.

2 Select the picture using »▲«, »▼«, »◀«, »▶« or »**1 ... 0**« on the remote control and press »**OK**« to confirm.
– The selected picture is shown.

3 Press »▶ « to start a slide show of the pictures.

Note:
If you have activated TE mode in the »Picture« menu, the pictures are shown in random order.

4 To end playback, press »■«.

Rotating pictures

You can rotate pictures to four angles (0°, 90°, 180°, 270°).

1 Press »▶«, »▼«, »◀« or »▲« to rotate the picture as required.

DISC MODE

Displaying information ...

... in DVD mode

1 Press »**DISPL**« to see the Info line.
– Display:

00:00:05	Playing time
01:31:55	Remaining playing time

2 To call up further information press »**DISPL**« again.
– Display:

DVD	Type of disc
Title 1/2	Current and available titles
Chapter 13/20	Current and available chapters
Angle 1/4	Camera positions (in the example 4)
Audio 1/3 DD 1 ch English	Current sound language is English
Subtitle Off	Subtitles are off

3 Press »**DISPL**« to hide the Info line.

... in video CD mode

1 Press »**DISPL**« repeatedly on the remote control.
– You will receive information concerning:
– The elapsed playing time
– The remaining playing time
– The type of VCD/S-VCD
– The current track on the VCD/S-VCD

VCD1.1 00:01:26 00:50:51
Track 1/1

... in MP3/WMA mode

The bottom section of the MP3/WMA menu shows the elapsed playing time of the current file as well as information such as the file name and artist.

... in audio CD mode

1 Press »**DISPL**« repeatedly on the remote control.
– You will receive information concerning:
– The elapsed playing time of the current track
– The remaining playing time of the track
– The current track
– The total number of tracks on the CD

CDDA 00:02:42 00:00:34
Track 5/19

... in JPEG CD mode

1 Press »**DISPL**« repeatedly on the remote control.
– You will see information on:
– The number of the current picture and the total number of pictures
– The name of the current picture

Picture CD
11/19 Montage_14_nor

Additional playback functions

During the fast search and slow motion functions, the sound is muted or the volume is reduced (CD-DA). Some of the functions are not available depending on the disc.

Fast search

1 During playback, press »◀◀« or »▷▶« on the remote control.
– The fast search starts either forwards or backwards.

Note:
By repeatedly pressing »◀◀« or »▷▶« you can alter the forward or backward search speed during the search. The maximum speed varies according to the medium.

▶▶ x 2

▶▶ x 4

2 Press »▶ « at the desired position.
– Normal playback starts.

Note:
In video CD mode, the search stops at the end of a track. When the next track begins, normal playback starts automatically.

▶

Slow motion

You can choose between three different forward playback speeds. The maximum speed varies according to the medium.

1 During playback, press »▮▶« on the remote control.

2 Select the forward slow motion speed by repeatedly pressing »▮▶«.

▮▶1/6

3 Press »▶ « to return to normal playback.

▶

Selecting the camera angle for particular scenes or passages

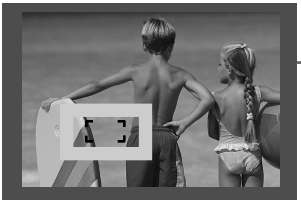
Many DVDs contain scenes or passages which were filmed by various cameras from different angles. You can choose from among these different angles.
On DVDs which offer this function, the multi-angle symbol appears on the television screen, for example »🎥 1/4«.

1 To select the camera angle function, press »🎥« during playback.
– Display: camera angle »🎥 2/4«, in the example 2 of 4.

2 To select another camera angle, press »🎥« repeatedly.

Enlarging the picture (zoom)

This function allows you to enlarge various picture sections.



1 During playback, pause or slow motion, press »🔍« repeatedly on the remote control.
– Display: the zoom display, where part of the picture is enlarged.

2 Press »▲« or »▼«, or »◀« or »▶« to move the enlarged image around the screen.

3 To reduce the size of the picture section, keep pressing »🔍« on the remote control until the zoom display is smaller.

4 To quit the function, press »▶« to start normal playback.

Switching the dubbed language or the audio format

Use this setting to change from the preset dubbed language if the DVD offers alternatives.

1 Press »🎧« during playback.
– Display: the current dubbed language.

2 Keep pressing »🎧« to select the dubbed language.

Note:
Switching the dubbed language can be suppressed by the structure of the DVD itself. In this case the setting is usually made in the DVD menu.

Selecting and displaying subtitles

If the DVD provides subtitles, they can be displayed on your TV screen.
When subtitles are available in several languages, you can select your preferred language.

1 Press »⊟« during playback.

– Display: for example, »⊟ 1/21 Eng« is briefly displayed, and the current subtitle is displayed.

2 Keep pressing »⊟« to select the subtitle language.

Notes:
To switch off the subtitles, keep pressing »⊟« until »⊟ Off« appears in the display. Switching the subtitles can be suppressed by the structure of the DVD itself. In this case the setting is usually made in the DVD menu.

Playing back chapters, titles or files in random order (in CD mode)

1 To call up the function, press »**CD S/I**« until »Shuffle On« appears in the display.
– The chapters, titles or files are played back in random order.

2 To quit the function, press »**CD S/I**« until »Shuffle Off« appears in the display.

Playing the introductions of all titles or files (in CD mode)

1 To start this function, press »**CD S/I**« once.
– Display: »Intro«.
– The first ten seconds of each title or file are played. Playback begins with the first title or file.

2 Press »▶ « to start normal playback at the required position

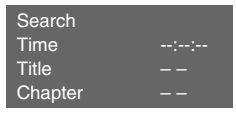
or

To quit the function, press »**CD S/I**« until »▶ « appears.

Zero setting (GO TO)

This function allows you to choose the playback position on the DVD, video CD or audio CD to the precise second.

1 Press »▶● « on the remote control to call up the function.
– The zero setting menu is displayed.



2 Select the title or chapter number display with »▲« or »▼« on the remote control.

3 Using the numerical buttons »**1 ... 0**« on the remote control, enter the title or chapter number and press »**OK**« to confirm.
– Playback of the selected title or chapter begins.

or

2 Press »▲« or »▼« on the remote control to select the time display.

3 Enter the time with »**1 ... 0**« and press »**OK**« to confirm.
– Playback starts at exactly the position you entered.

Repeat functions

Repeating a selected section (A-B Repeat)

You can mark a section within a chapter, file or title to be repeated.

1 Briefly press »**A-B**« during playback to mark the start of the section.
– Display: »↶ A-«.

↶ A-

2 Briefly press »A-B« again to mark the end of the section.
– Display: »↶ B«, the scene marked is now constantly repeated.

↶ B

3 Press »**A-B**« again to quit the function.
– Display: briefly »↶ Off«.

↶ Off

Repeating a chapter, file, title or all chapters, files, or titles on a disc

1 During playback, press »🔁« on the remote control.
– Display: briefly, e.g. »Chapter Repeat«; a chapter, file or title is repeated.

Chapter Repeat

2 Press »🔁« on the remote control again.
– Display: briefly e.g. »Title Repeat«; all chapters, files or titles are repeated.

Title Repeat

3 Press »🔁« on the remote control a third time.
– Display: briefly e.g. »Disc Repeat«; the whole disc is repeated.

Disc Repeat

4 Press »🔁« on the remote control a fourth time to quit the function.
– Display: briefly »Repeat Off«.

Repeat Off

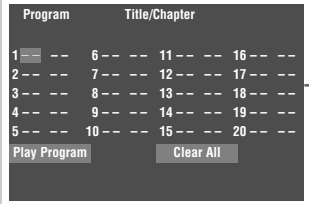
Notes:
The PBC function must be switched off in video CD mode.

DISC MODE

Creating a track memory – playing back titles or tracks in selected order

You can store and then play back up to 12 titles or tracks in a particular order from the disc. A track may be stored more than once. The DVD receiver must be in the stop position. When entering the settings, if no button is pushed for more than 5 seconds, the DVD receiver ends the process automatically. You then have to start again.

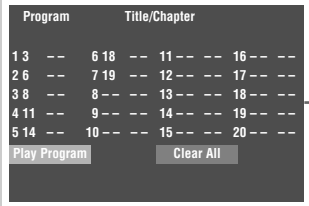
Note:
The DVD receiver must be in the stop position.



1 Open the »Program« function by pressing »**PROG**« on the remote control.
– Depending on the type of disc in use the program menu appears, and a bookmark is displayed on item 1.

2 Enter the number of the title, chapter or track with »**1 ... 0**« and press »**OK**« to confirm.

3 Select the next item using »◀«, »▶«, »▲« or »▼« and repeat the entry.



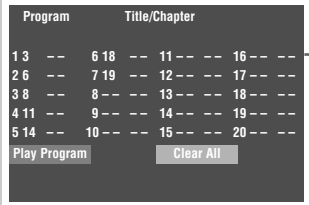
Playing back a track memory

1 To play back the track memory, select »Play Program« with »◀«, »▶«, »▲« or »▼« and press »**OK**« to confirm.
– Playback of the track memory starts.

2 End playback of the track memory by pressing »■« (twice).

Deleting a track memory

1 Call up the »Program Input« menu in stop mode by pressing »**PROG**«.



2 Select »Clear All« with »◀«, »▶«, »▲« or »▼« and press »**OK**« to confirm

or

Press »▲« to open the disc compartment.
– The track memory is deleted

OTHER MODES

Tuner mode

Selecting the tuner input source

1 Select the input source by pressing »**AM FM**« on the remote control or »**FUNCTION**« on the DVD receiver.
– The most recently selected radio station is played (Last Station Memory).
– Display on the DVD receiver: frequency band and frequency, or station name.

Selecting the waveband

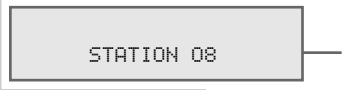
1 Select the wavebands FM (VHF) or AM (medium wave) by pressing »**AM FM**« on the remote control or »**FUNCTION**« on the DVD receiver.
– Display on the DVD receiver: »FM« or »AM« and the frequency or briefly »TUNER FM« or »TUNER AM«.

Calling up stored radio stations

1 Select the preset position by pressing »**1 ... 0**« and »**OK**« on the remote control.
– Display on the DVD receiver: briefly, e.g. »FM06 100. 60 MHz«

or

Press »|◀« or »▶|« on the remote control to select preset position one at a time.



– Display on the DVD receiver: briefly e.g. »STATION 08«, then the frequency or station name.

Switching between stereo and mono reception

When the DVD receiver receives FM stereo stations, »**STEREO**« appears in the display. If the signal from the FM stereo station is weak, you can improve the sound quality by switching to mono reception.

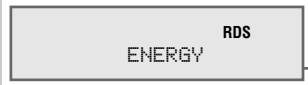
1 Press »**FM MODE**« on the remote control to switch to mono reception.
– Display: briefly »MONO«, »**STEREO**« disappears.

2 To switch back to FM stereo, press »**FM MODE**« on the remote control.
– Display: briefly »STEREO«, »**STEREO**« remains on.

RDS station service

RDS (Radio Data System) is an additional information system provided by most FM stations. When the DVD receiver is receiving an RDS station, »**RDS**« and the station name appear in the display.

Searching for RDS stations



1 To search for an RDS station, press »◀◁« or »▷▶« repeatedly until »**RDS**« appears in the display indicating that an RDS station is being received.
– After a short time the station name sometimes appears if the reception is sufficiently strong.

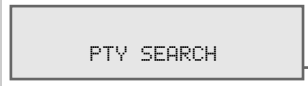
Note:
It may take some time before all the RDS information is available.

Calling up RDS information

If an RDS station is being received, various station information can be called up in the display.

1 Press »**RDS**« repeatedly.
– The display shows the waveband with the preset position and frequency, station type, radio ticker text, the station name, and then the waveband again with the preset position and frequency.

Searching for station types (PTY)



1 Press »▼ **PTY SEARCH**« to call up the PTY search function.
– Display: »PTY SEARCH«.
– If no station type code is transmitted, »NO PTY« appears in the display.

2 Select other station types by pressing »◀ **PTY –**« or »▶ **PTY +**«.

3 Press »**OK**« to start the PTY search.
– If the station type cannot be found, the following ticker text message appears: »NOT FOUND«.
– If the station type is found, the frequency appears in the display and the desired station type can be heard.

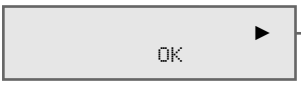
OTHER MODES

Sleep timer mode

Setting the sleep timer

The sleep timer switches the system off at the set time.

1 To activate the function, keep pressing »⏾« on the remote control until »SLEEP OFF« appears in the display.



2 To set the switch-off time (» 10«, »20«, »30«, »60« to » 150«) press »◀« or »▶« repeatedly and then press »**OK**« to confirm.
– Display: briefly »OK«, then »▶«.
– The system switches off after the selected time.

3 To see the remaining time until the device switches off, press »⏾« on the remote control until »SLEEP - 19« (for example) appears in the display.

Deactivating the sleep timer

1 To activate the function, keep pressing »⏾« on the remote control until the remaining time, e.g. »SLEEP -8«, appears in the display.

2 Keep pressing »◀« or »▶« until »SLEEP OFF« appears in the display, then press »**OK**« to confirm.
– Display: briefly, »SLEEP - 19«, then »▶« disappears.
– The system stays on.

or

1 Press »**ON/OFF**« to switch the DVD receiver to standby mode.

INFORMATION

Technical data

This device is noise-suppressed according to the applicable EU directives.
This product fulfils the European directives 89/336/EEC, 73/23/EEC and 93/68/EEC.
This device conforms to the safety regulation DIN EN 60065 (VDE 0860) and therefore the international safety regulation IEC 60065.
Never open up the DVD receiver. No warranty claims are accepted for damage resulting from improper handling.

Manufactured with permission from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol "□□" are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

Technical and design modifications reserved.

General information

Mains voltage:
230 V~, 50 Hz

Rated power consumption:
Operating: ≤ 140 W
Standby: ≤ 1 W (DVD receiver)

Ambient temperature:
+10 °C to +35 °C

Amplifier

Output:
Nominal:
3 x 25 W (3 x 6 Ω), 2 x 55 W (2 x 6Ω),
1 x 80 W passive
Music:
5 x 45 W (5 x 6 Ω)

Input sensitivity/impedance (audio analogue):
400 mV / 22 kOhm

Frequency range:
10 ... 24,000 Hz

Non-linear distortion factor:
-1 dB, 8 Ω, 1 kHz, ≤ 0.3 %

Disc unit

Playback standard:
PAL, 50 Hz, 625 lines
NTSC, 60 Hz, 525 lines

Picture format:
4:3, 16:9

Playback system:
DVD video/audio, video CD 1.1 and 2.0,
S video CD, MP3/WMA-CD, audio CD (CD-DA)
CD-R, CD-RW, DVD-R,
CD ROM (MP3), sampling frequency 44.1 kHz

Radio

Sensitivity:
Mono (S/N=26 dB), 4 µV
Stereo (S/N=46 dB), 30 µV

Non-linear distortion factor:
Mono (1 kHz, 40 kHz dev.), 0.3 %
Stereo (1 kHz, 40 kHz dev.), 0.6 %

Frequency range:
(± 3 dB) 20 ... 14,000 Hz

Noise voltage ratio:
22.5 kHz dev., DIN A, Mono, ≥ 60 dB
40 kHz dev., DIN A, Stereo, ≥ 63 dB

FM and AM frequency bands:
FM 87.5 ... 108 MHz
AM 522 ... 1629 kHz

INFORMATION

LLoudspeakers

Frequency range:
Front and surround loudspeakers:
100 ... 20,000 Hz
Subwoofer:
40 ... 150 Hz

System:
5 x broadband
Subwoofer: Bass reflex system

Dimensions and weight

DVD receiver
W x H x L: 360 x 60 x 385 mm
7.0 kg

Front loudspeakers
W x H x L: 90 x 130 x 120 mm
0.7 kg

Centre loudspeaker
W x H x L: 90 x 130 x 120 mm
0.7 kg

Surround loudspeakers
W x H x L: 90 x 130 x 120 mm
0.7 kg

Subwoofer
W x H x L: 185 x 380 x 325 mm
6 kg

General instructions for laser devices

CLASS 1
LASER PRODUCT

Your system is a CLASS 1 LASER PRODUCT. This means that the laser is designed in such a way as to ensure that the maximum permissible emission value cannot be exceeded under any circumstances.

Caution:
If operating devices or methods other than those specified here are employed, it may lead to dangerous exposure to emissions.

This device emits laser radiation. Because of the danger of eye injuries, the unit may only be opened or serviced by trained personnel.
If settings other than those specified here are employed or other procedures are carried out, this may lead to dangerous radiation exposure.

Cleaning discs

Wipe the dirty disc with a cloth from the centre outwards in a straight line. Do not use any solvents such as benzene, thinners, conventional cleaner or anti-static spray for vinyl records.

Rectifying minor problems

Not every picture or sound problem is caused by a defect in your DVD receiver. Defects can also be caused by leads having been accidentally pulled out, damaged discs and worn out batteries in the remote control. If the following measures do not rectify the problem, consult your authorised dealer.
Due to the difference in quality of the recording media and the quality of the recording itself, it can occasionally happen that a home-made disc cannot be read. This does not indicate a malfunction of the DVD receiver.

Fault	Possible cause/remedy
The DVD receiver will not switch on.	No electrical supply: Check the connection to the mains cable.
The DVD receiver does not respond to the remote control.	Obstacles, used batteries: Remove all obstacles which could disturb the signal of the remote control. Test or replace the batteries of the remote control.
No picture or sound.	Incorrect cable connection, the video or audio connection cable is faulty: Check the connections on the DVD player and on the television. The MUTE function has been activated: Deactivate this function as described on page 28.
No sound from some loudspeakers, e.g. centre, surround or subwoofer.	Activate the test tone (see page 21). If you hear a signal from all the loudspeakers, then the loudspeaker setting and cabling are correct. In this case the multi-channel mode is set incorrectly or the inserted disc does not produce multi-channel sound. Check the multi-channel settings on the DVD receiver. Check the loud speaker settings in the set-up menu.
No sound or insufficient bass tone coming from the subwoofer.	The subwoofer has been connected incorrectly: Check to make sure the subwoofer has been connected properly.
The inserted disc does not play.	Make sure the printed side of the disc is facing upwards. Clean the disc. The DVD receiver cannot read the inserted disc format. Check to see if the inserted DVD has the regional code 2. The parental lock settings prevent the playback of the disc: Alter the parental lock settings (see page 24).
Search, slow motion, playback repeat, programmed playback etc. do not work.	The relevant functions are not available with the inserted disc.
Insufficient MP3 playback or none at all.	The sampling frequency 44.1 kHz has not been observed. Burn a new MP3 CD observing the sampling frequency.
CD-Rs or CD-RWs are not played back, or are played back incorrectly.	Faulty software or hardware settings during burning or the CD itself. Check the components of your CD burner/software or change the CD being used.
Distorted audio signal during FM reception.	Poor stereo reception. Correct the frequency manually, if necessary. Faulty antenna connection. Check the antenna connection.
You have forgotten the personal access code for the parental lock.	Enter the master code »8888«.